

ABSTRACT OF THE DISCLOSURE

A method to reduce the noise produced by movement of a substrate is disclosed. One embodiment of the method includes applying a noise-reducing coating material at an add-on rate of at least about three grams per square meter to a target region of a first surface of a substrate so as to substantially completely coat the target area, wherein the noise-reducing coating material comprises a polymeric material. Also disclosed is a reduced-noise composite material that can be employed in a disposable personal care device. The reduced-noise composite material can include a substrate layer which defines a first surface having a surface area and a target area, and a noise-reducing layer which substantially completely coats the target region. The noise-reducing layer has a basis weight of at least about three grams per square meter. Also disclosed is a reduced-noise disposable personal care device, which may in particular embodiments be a disposable absorbent article. One embodiment of the disposable absorbent article includes a body-side liner and a garment-side outer cover. The outer cover includes a liquid-impermeable substrate layer comprised of a thermoplastic, polymeric material and which defines a first surface having a surface area and a target area. The outer cover further includes a noise-reducing layer which substantially completely coats the target region, and which has a basis weight of at least about three grams per square meter. The disposable absorbent article further includes an absorbent assembly disposed between the body-side liner and the garment-side outer cover.